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Physiological ecology of invertebrates

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Effects of pollution on marine communities

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Physiological ecology of invertebrates

PHYSIOLOGICAL MECHANISMS

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Resistance to stress including pollution; regulation; adaptation

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Behavioral physiology of fish; feeding; predation of fish larvae

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Physiology and ecology of corals

Burton, R. S., Prof.
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Population genetics; evolutionary mechanisms in populations; biochemical and molecular genetic analyses of invertebrates

Caron, D. A., Dr
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Feeding, respiration and nutrient regeneration of protozoans

Chapman, A. R. O., Prof.
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Physiology and demography of macroalgae

Costlow, J. D., Jr, Prof.
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Developmental physiology; endocrinology

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Chemosensory behavior; mathematical models

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Stress effects on invertebrates

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Osmoregulation in estuarine invertebrates

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Behavioural physiology; invertebrate biology

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Ecophysiology and toxicology of algae; cellular biology; behavior of algae

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Swimming dynamics of plankton; activity pattern and reproductive strategies of fishes; energy budgets of herbivores

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Chemistry of red algae; molecular genetics of red and green algae

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Mechanisms of cellular resistance and control

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Nutrition of invertebrates

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Microcosm cultures

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Cultivation of microorganisms

Winter, J. E., Dr
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Cultivation of invertebrates

DYNAMICS

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Mangrove systems; reef studies

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Microbial ecology; trophic relations between planktonic protozoans and other heterotrophic and photosynthetic organisms; pelagic detrital aggregates

Chapman, A. R. O., Prof.
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Community ecology of rocky shores

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Nitrogen cycling and primary production

Conover, R. J., Dr
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Zooplankton biology, physiology, biochemistry

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Productivity of the sea; fish-population dynamics; biological oceanography

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Structure and function of fish and benthic communities

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Population biology; microbial ecology

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Dynamics of nearshore ecosystems

Foster, M. S., Prof.
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Population and community ecology of macroalgae

Fuhrman, J., Prof.
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Planktonic microbial ecology. Productivity and growth of microorganisms, especially bacteria

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Ecology of sea birds

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Benthos of deep sea and temperate coasts

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Soft-sediment ecology

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Zoogeography; natural history of fish

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Crustacean ecology and biology

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Population and community ecology of benthic invertebrates

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Ecology of molluscs; community structure of soft-sediment invertebrates

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Scheltema, R. S., Dr
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Reproduction, biogeography, and evolution of benthic invertebrates

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Food webs and trophic interactions

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Benthic ecology and bioenergetics; production; food chains of detritus-based systems

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Wetlands ecology, incl. submerged seagrasses and emergent marshes; production and utilization of detritus

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Organic matter in sea water; theoretical population dynamics; geochemistry; chemical oceanography

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Structure and functioning of benthic communities; meiofaunal ecology; energy flow

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Reproductive dynamics of red algae; fine structure and parasites of algae

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Plankton ecology; community structure, population dynamics

OCEAN MANAGEMENT

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Radioactive and conventional pollution

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Effects of man-made and natural disturbances on coral reefs

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Heavy metal pollution; estuarine chemistry

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Toxicology and pollution

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Marine pollution assessment and control

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Pollutant effects on plankton; radioecology

Fowler, S. W., Dr
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Pollution effects on zooplankton; radioecology

Gray, J., Prof.
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Pollution effects on benthos animals

Marinescu, A.-G., Dr
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Toxicology and stress responses in invertebrates

Mauchline, J., Dr
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Radioactive pollution

McLusky, D. S., Dr
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Biological effects of pollutants (petro-, chemical, organic enrichment)

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Fisheries management and ecology

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Fisheries ecology; fishery resources; zooplankton

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Fish egg and larval survival

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